

## Sheet 5

### Problem 1

```
// Computers & control Engineering Dept. - First Year Students
// Computer Programming(2) - Second Term - 2011/2012
// This program used to input, output and count a series of
characters
#include<iostream.h>
void main( )
{
char a[100]="0";
int count=0;
    //cout<<"Enter the characters : "<<endl;
    //cin>>a;
cin.get(a,100);    //to allow the space
for(int i=0;i<100;i++)
{
    if(a[i]!=0)
    {
        cout<<a[i]<<endl;
        count++;
    }
    else
        break;
}
cout<<"The number of characters is: "<<count<<endl;
}
```

### Problem 2

```
// Computers & control Engineering Dept. - First Year Students
// Computer Programming(2) - Second Term - 2011/2012
// This program uses the library <stdio.h> to input and output a
character
#include<stdio.h>
void main( )
{
char x;
x=getchar(x);
putchar(x);
}
```

### Problem 3

```
// Computers & control Engineering Dept. - First Year Students
// This program uses the library <stdio.h> to print the area of a
circle
#include<stdio.h>
void main( )
{
float r,area;
scanf("%f",&r);
area=3.14*r*r;
printf("The area is %f", area);
}
```

### Problem 4

Hello Students there are 4 have grade A in the exam